

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: HALO

Report Number: P642239

Luminaire Tested: ML5612LSWFL5597FS1E - 694WB - 1200LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642239
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-67)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSWFL5597FS1E - 694WB - 1200LM - 4000K
Description: ML56 RR, 55D TIR OPTIC, 6" WHITE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

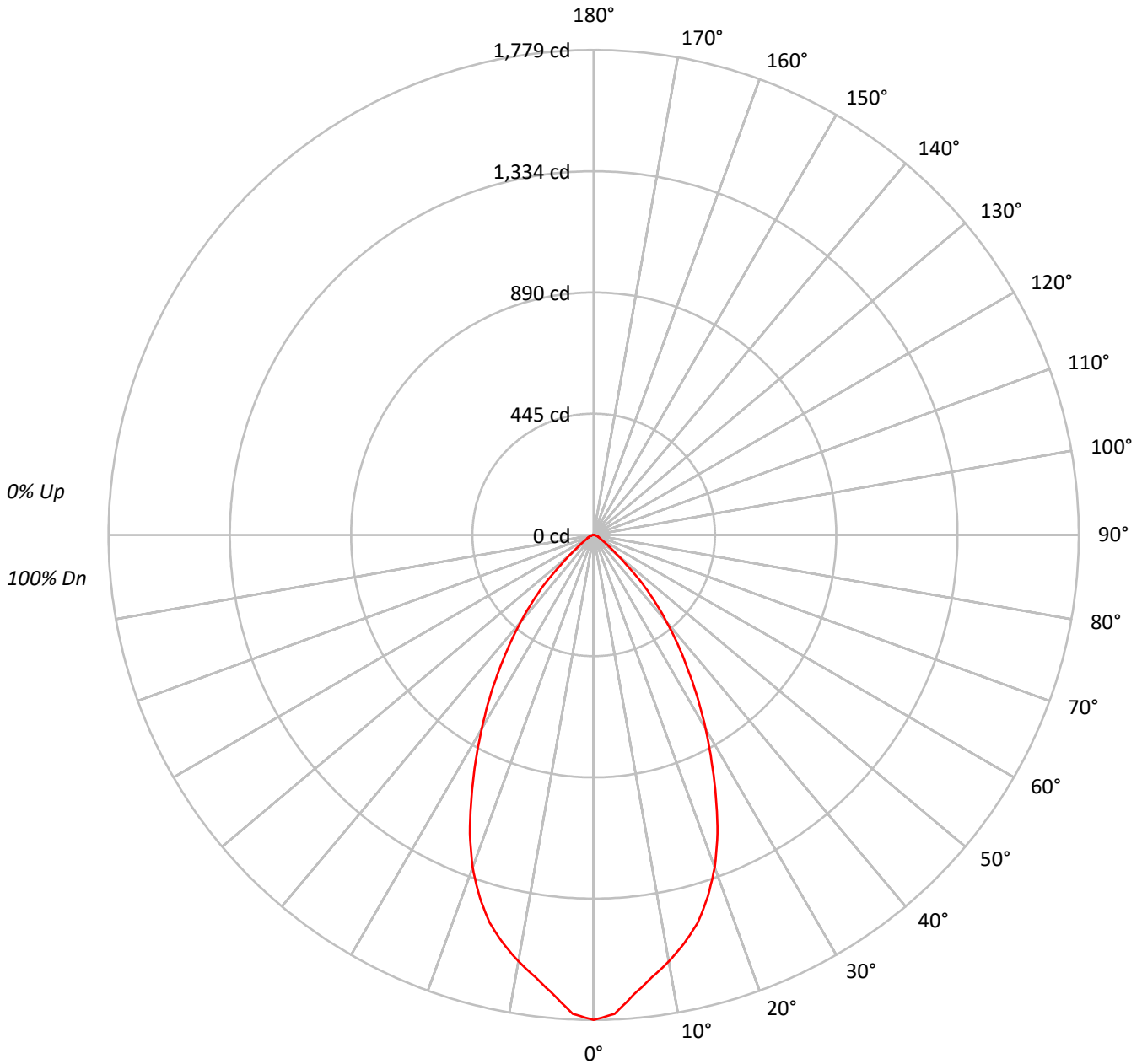
Lumens per Lamp: N/A
Luminaire Lumens: 1707.1 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20																	
RC	80									50									30									10									0								
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0															
RCR																																													
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																											
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92																											
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85																											
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78																											
4	95	87	81	76	93	86	80	76	84	79	75	81	77	74	80	76	73	72																											
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66																											
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	63	61																											
7	80	70	64	59	79	70	63	59	68	63	59	67	62	58	66	61	58	57																											
8	76	66	59	55	75	65	59	55	64	59	55	63	58	54	62	58	54	53																											
9	72	62	56	51	71	61	55	51	60	55	51	59	54	51	59	54	51	49																											
10	69	58	52	48	68	58	52	48	57	51	48	56	51	48	55	51	47	46																											

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	97542
5°	93121
10°	88431
15°	83599
20°	75682
25°	64123
30°	51894
35°	40294
40°	29763
45°	19560
50°	9475
55°	5027
60°	3454
65°	2724
70°	2404
75°	1589
80°	947
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19560 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.4	9.3
10°-20°	409.9	24.0
20°-30°	484.3	28.4
30°-40°	377.6	22.1
40°-50°	193.1	11.3
50°-60°	52.7	3.1
60°-70°	21.7	1.3
70°-80°	8.7	0.5
80°-90°	0.8	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1052.6	61.7
0°-40°	1430.2	83.8
0°-60°	1676.0	98.2
0°-90°	1707.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1707.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1779	
5°	1692	158
15°	1473	410
25°	1060	484
35°	602	378
45°	252	193
55°	53	53
65°	21	22
75°	8	9
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1779.3
2.5°	1758.3
5°	1692.2
7.5°	1636.6
10°	1588.6
12.5°	1534.5
15°	1473.0
17.5°	1391.9
20°	1297.3
22.5°	1186.2
25°	1060.1
27.5°	936.9
30°	819.8
32.5°	710.2
35°	602.1
37.5°	506.0
40°	415.9
42.5°	331.8
45°	252.3
47.5°	166.7
50°	111.1
52.5°	75.1
55°	52.6
57.5°	39.0
60°	31.5
62.5°	25.5
65°	21.0
67.5°	18.0
70°	15.0
72.5°	10.5
75°	7.5
77.5°	6.0
80°	3.0
82.5°	1.5
85°	0.0
87.5°	0.0
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)